

Project Title: Regulation of the DNA Damage Response

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Publication Title	Authors	Journal (Pub date)	Volume/Page	PubMed Link
A genome-wide siRNA screen reveals diverse cellular processes and pathways that mediate genome stability.	Paulsen, Renee D; Soni, Deena V; Wollman, Roy; Hahn, Angela T; Yee, Muh-Ching; Guan, Anna; Hesley, Jayne A; Miller, Steven C; Cromwell, Evan F; Solow-Cordero, David E; Meyer, Tobias; Cimprich, Karlene A	Mol Cell (2009 Jul 31)	35 / 228-39	PubMed Citation
A role for the MRN complex in ATR activation via TOPBP1 recruitment.	Duursma, Anja M; Driscoll, Robert; Elias, Josh E; Cimprich, Karlene A	Mol Cell (2013 Apr 11)	50 / 116-22	PubMed Citation
A two-dimensional ERK-AKT signaling code for an NGF-triggered cell-fate decision.	Chen, Jia-Yun; Lin, Jia-Ren; Cimprich, Karlene A; Meyer, Tobias	Mol Cell (2012 Jan 27)	45 / 196-209	PubMed Citation
Analyzing the ATR-mediated checkpoint using Xenopus egg extracts.	Lupardus, Patrick J; Van, Christopher; Cimprich, Karlene A	Methods (2007 Feb)	41 / 222-31	PubMed Citation
ATR phosphorylates SMARCAL1 to prevent replication fork collapse.	Couch, Frank B; Bansbach, Carol E; Driscoll, Robert; Luzwick, Jessica W; Glick, Gloria G; Bétous, Rémy; Carroll, Clinton M; Jung, Sung Yun; Qin, Jun; Cimprich, Karlene A; Cortez, David	Genes Dev (2013 Jul 15)	27 / 1610-23	PubMed Citation
ATR: an essential regulator of genome integrity.	Cimprich, Karlene A; Cortez, David	Nat Rev Mol Cell Biol (2008 Aug)	9 / 616-27	PubMed Citation
Causes and consequences of replication stress.	Zeman, Michelle K; Cimprich, Karlene A	Nat Cell Biol (2014 Jan)	16 / 2-9	PubMed Citation
Checkpoint recovery after DNA damage: a rolling stop for CDKs.	Duursma, Anja M; Cimprich, Karlene A	EMBO Rep (2010 Jun)	11 / 411-2	PubMed Citation

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Continued primer synthesis at stalled replication forks contributes to checkpoint activation.	Van, Christopher; Yan, Shan; Michael, W Matthew; Waga, Shou; Cimprich, Karlene A	J Cell Biol (2010 Apr 19)	189 / 233-46	PubMed Citat
DNA damage tolerance: when it's OK to make mistakes.	Chang, Debbie J; Cimprich, Karlene A	Nat Chem Biol (2009 Feb)	5 / 82-90	PubMed Citat
DNA damage-specific deubiquitination regulates Rad18 functions to suppress mutagenesis.	Zeman, Michelle K; Lin, Jia-Ren; Freire, Raimundo; Cimprich, Karlene A	J Cell Biol (2014 Jul 21)	206 / 183-97	PubMed Citat
DNA replication stress underlies renal phenotypes in CEP290-associated Joubert syndrome.	Slaats, Gisela G; Saldivar, Joshua C; Bacal, Julien; Zeman, Michelle K; Kile, Andrew C; Hynes, Ann Marie; Srivastava, Shalabh; Nazmutdinova, Jekaterina; den Ouden, Krista; Zagers, Miriam S; Foletto, Veronica; Verhaar, Marianne C; Miles, Colin; Sayer, John A; Cimprich, Karlene A; Giles, Rachel H	J Clin Invest (2015 Sep)	125 / 3657-66	PubMed Citat
Finally, polyubiquitinated PCNA gets recognized.	Zeman, Michelle K; Cimprich, Karlene A	Mol Cell (2012 Aug 10)	47 / 333-4	PubMed Citat
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PHD domain from human SHPRH.	Machado, Luciana E F; Pustovalova, Yulia; Kile, Andrew C; Pozhidaeva, Alexandra; Cimprich, Karlene A; Almeida, Fabio C L; Bezsonova, Irina; Korzhnev, Dmitry M	J Biomol NMR 56 / 393-9 (2013 Aug)	56 / 393-9	PubMed Citat
Probing ATR activation with model DNA templates.	Cimprich, Karlene A	Cell Cycle (2007 Oct 1)	6 / 2348-54	PubMed Citat
Proliferating cell nuclear antigen uses two distinct modes to move along DNA.	Kochaniak, Anna B; Habuchi, Satoshi; Loparo, Joseph J; Chang, Debbie J; Cimprich, Karlene A; Walter, Johannes C; van Oijen, Antoine M	J Biol Chem (2009 Jun 26)	284 / 17700-10	PubMed Citat
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The ATR pathway: fine-tuning the fork.	Paulsen, Renee D; Cimprich, Karlene A	DNA Repair (Amst) (2007 Jul 1)	6 / 953-66	PubMed Citat
The structural determinants of checkpoint activation.	MacDougall, Christina A; Byun, Tony S; Van, Christopher; Yee, Muh-ching; Cimprich, Karlene A	Genes Dev (2007 Apr 15)	21 / 898-903	PubMed Citat